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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
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| 09/923,115 | 08/06/2001 | Arthur H. Barnes | 10010364-1 | 9547 |
| 759 | 90 06/19/2003 | | | |
| HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 | | | EXAMINER | |
| | | | SOHN, SEUNG C | |
| Fort Collins, CO 80527-2400 | | | ART UNIT | PAPER NUMBER |
| | | | 2878 | |

DATE MAILED: 06/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary Saminer Saminer Saminer Set Saminer Set Saminer Set Saminer Set Saminer Set Saminer Set Set | <u>.</u> | - | Application No. | Applicant(s) | | | | |
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| ## Examiner Seung C. Sohn 2878 ## Familiar Seung C. Sohn 2878 ## Foreign for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.13(a), in no event, however, may a raply be timely filled in the period for reply specified above, the maximum statistory predict will apply and will expire SIX (8) MONTH'S from the mailing able of this communication. If all the predict or reply applied above, the maximum statistory predict will apply and will expire SIX (8) MONTH'S from the mailing able of this communication. If all the predict or reply applied above, the maximum statistory predict will apply and will expire SIX (8) MONTH'S from the mailing able of this communication. If all the predict of the mailing date of this communication, even if timely filled in application is plinked. ### Reponsive to communication(s) filled on 19 March 2003. ### Responsive to communication(s) filled on 19 March 2003. ### Responsive to communication(s) filled on 19 March 2003. ### Responsive to communication(s) filled on 19 March 2003. ### Responsive to communication is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. ### Disposition of Claims ### All Claim(s) | Office Action Summary | | • | BARNES, ARTHUR H. | | | | |
| Seung C. Sohn 2978 | | | · | | | | | |
| Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPR 1.139(a). In no event, however, may a reply be timely filed after SM (ii) MONTHS from the making date of this communication. Extensions of time may be available under the provisions of 37 CPR 1.139(a). In no event, however, may a reply be timely filed after SM (iii) MONTHS from the making date of this communication. Flavore to reply within the set or extended period for reply will be advised to the communication. Flavore to reply within the set or extended period for reply will be advised to the communication. Flavore to reply within the set or extended period for reply will be provided to the communication of the communication. Flavore to reply within the set or extended period for reply will be provided to the communication of the communication. Flavore to reply within the set or extended period for reply will be provided to the communication. Flavore to reply within the set or extended period for reply will be provided to the communication. Flavore to reply within the set or extended period for reply will be provided to the communication. Flavore to reply within the set or extended period for reply will be provided to the communication. Any reply recent by the CTR of the communication of the communication. Status 1) | | | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Excensions of the may be available under the provisions of 3 CF8 1.138(a). In no event, however, may a reply be limitly filed. If the period for reply is specified above is less than think (30) days, a reply within the statutory minimum of think (30) days will be considered timely. If the period for reply is specified above, the maximum statutory period will apply and will expert St (4) MONTHS from the malling date of this communication. Failure to reply within the set of extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Official later than thisse morths after the mailing date of this communication, even if timely filed, may reduce any Status 1) Responsive to communication(s) filed on 19 March 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) are subjected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on 19 March 2002 is: a) Deprive the provided provided by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S | | The state of the | | | | | | |
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| Attachment(s) | | | | | | | | |
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| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other: | 2) Notice | e of Draftsperson's Patent Drawing Review (PTO-948) | 5) Notice of Informal P | | | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Lisnyansky et al. (Patent No. US 5,047,652).

Referring to claim 1, Lisnyansky et al. discloses the following steps of Applicant's claim:

- a) recording data representative of medium thickness and transmissivity using an incident light source (Col. 6, lines 14-30); and
- b) comparing recorded data from said recording to predetermined data representative of known print medium thickness and transmissivity (Col. 6, lines 31-44).

Referring to claim 2, Lisnyansky et al. discloses recording transmissive light levels of the print medium over a lightwave reflective element ("white"), and recording transmissive light levels of the print medium over a lightwave absorptive element ("black") (Col. 6, lines 45-60).

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Referring to claim 3, Lisnyansky et al. discloses that when no match between said recorded data and said predetermined data is obtained, storing said recorded data as a new print medium data file (Col. 3, lines 57-65).

Referring to claim 4, Lisnyansky et al. discloses that the method as set forth in claim 1 embodied in computer code (Col. 5, lines 53-62).

Referring to claim 5, Lisnyansky et al. discloses the following steps of Applicant's claim:

- a) beaming transmissive light through a first type of print medium (Col. 8, lines 35-40);
- b) impinging the light onto surface ("white") reflective of the light and a surface ("black") absorptive of the light (Col. 10, lines 5-10);
- c) recording a profile representative of light reflection and light absorption (Col. 10, lines 28-31), and
- d) storing said profile in a memory with an identifier associated with said first type of print medium (Col. 5, lines 57-62).

Referring to claim 6, Lisnyansky et al. discloses the following steps of Applicant's claim:

- a) beaming (radiating) transmissive light through a second type of print medium;
- b) impinging the light onto surface reflective of the light and a surface absorptive of the light;
- c) recording a profile representative of light reflection and light absorption; and

d) storing said profile in a memory with an identifier associated with said second type of print medium.

Referring to claim 7, Lisnyansky et al. discloses said memory is used as a lookup table for identifying (Col. 5, lines 57-62).

Referring to claim 8, Lisnyansky et al. discloses the following steps of Applicant's claim:

- a) storing first data representative of media thickness and transmissivity of a single sheet of a known print medium;
- b) storing second data representative of media thickness and transmissivity of at least two stacked sheets of a known print medium;
- c) recording third data representative of current medium thickness and transmissivity during transport of said current medium from a supply toward a printing zone, and
 - d) comparing said third data to said first and second data.

Referring to claim 9, Lisnyansky et al. shows in Fig. 1 the following elements of Applicant's claim:

- a) mounted for bracketing a print media transport path (18 or 20), emitter receptor means (34, i.e., optical sensing device) for directing a light beam across the transport path, the light beam having predetermined intensity and wavelength for penetrating print media (Col. 8, lines 25-34); and
- b) aligned with the emitter means such that said light beam is received after passing through a sheet of print media in said path, an

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associated light absorbing means ("black") and an associated light reflecting means ("white") for receiving the light beam (Col. 10, lines 5-10),

wherein the receptor means provides an output signal indicative of thickness and transmissivity of the sheet (Col. 6, lines 14-30).

Referring to claim 10, Lisnyansky et al. discloses that said output signal is a first level when no paper is interrupting the beam, a second output signal indicative of a single sheet of print media interrupting the beam, and at least one other signal level indicative of multiple sheets of print media interrupting the beam.

Referring to claim 11, Lisnyansky et al. discloses said output signal is a first signal when no paper is interrupting the beam, a second signal when the sheet of paper is interrupting the beam over a reflective surface, and a third signal when the sheet of paper is interrupting the beam over an absorptive surface (Col. 6, lines 35-41).

Referring to claim 12, Lisnyansky et al. discloses mounting means (140) for scanning said beam across a paper transport path of said paper wherein a reflective element ("white") and absorptive element ("black") are mounted transverse to said transport path such that the sheet of paper passes between said mounting means and said reflective element and absorptive element (Col. 10, lines 44-56).

Referring to claim 13, it is inherent that the emitter means may be an LED optical emitter mounted for projecting a light beam through the paper

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wherein the light beam has a predetermined intensity and wavelength for penetrating and being reflected back through at least two sheets of print media.

Referring to claim 14, Lisnyansky et al. discloses the following elements of Applicant's claim:

- a) computer code for recording data representative of print medium thickness and transmissivity using an incident light source (Col. 6, lines 14-30), and
- b) computer code for comparing recorded data from said recording to predetermined data representative of known print medium thickness and transmissivity (Col. 6, lines 31-44).

Conclusion

3. Claims 1-14 are rejected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seung C. Sohn whose telephone number is (703) 308-4093. The examiner can normally be reached on Monday through Friday from 8:30 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on (703) 308-4852. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

SCS

June 15, 2003

KEVIN PYO PRIMARY EXAMINER